# SWP Weekly Water Quality Summary

June 29 to July 6, 2010

**Electrical Conductivity (EC):** Concentrations increased at Check 29 and Check 41, but decreased at Harvey O. Banks Pumping Plant (HBP), Barker Slough and Vallecitos from June 29 to July 6, 2010. EC ranged from 210 to 455 µS/cm (126 to 273 mg/L) and was below the Article 19 Monthly Average Objective of 733 µS/cm (440 mg/L). Concentrations at HBP decreased from 271 µS/cm to 219 µS/cm (163 to 131 mg/L) from June 29 to July 6, 2010. As of July 6, 2010, the lowest concentration of 210 µS/cm (126 mg/L) occurred at Barker Slough, while the highest concentration of 455 µS/cm (273 mg/L) occurred at Check 29.

**Bromide*:** Concentrations equaled or exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all locations and ranged from 0.05 to 0.20 mg/L. As of July 6, Barker Slough had the lowest concentration of 0.05 mg/L, while the highest concentration of 0.20 mg/L occurred at Check 29.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

**Turbidity:** Turbidity levels increased at HBP, Check 41, Barker Slough, and Vallecitos, but decreased at Check 29 from June 29 to July 6, 2010. Levels ranged from 7.0 NTU to 68.9 NTU. As of July 6, 2010, the lowest level of 7.3 NTU occurred at Check 29, while the highest level of 68.9 NTU occurred at Barker Slough. Turbidity levels at HBP increased from 22.4 NTU to 23.9 NTU as of July 6, 2010.

**Dissolved Organic Carbon (DOC):** Concentrations decreased from 2.9 mg/L to 2.7 mg/L at HBP and from 3.6 mg/L to 3.2 mg/L at Check 13, but increased from 3.3 to 3.5 mg/L at Edmonston PP as of July 6, 2010.

**Taste and Odor Compounds:** As of June 29, 2010, MIB and geosmin concentrations in the SWP remain low, ranging from non-detect (<1 ng/L) to 3 ng/L at O'Neill Outlet (Check 13), Pacheco PP, Castaic Lake and Lake Perris.

Ground water pump-ins to the California Aqueduct from June 29 to July 6, 2010 totaled 296 AF. The breakdown of the total volume was:

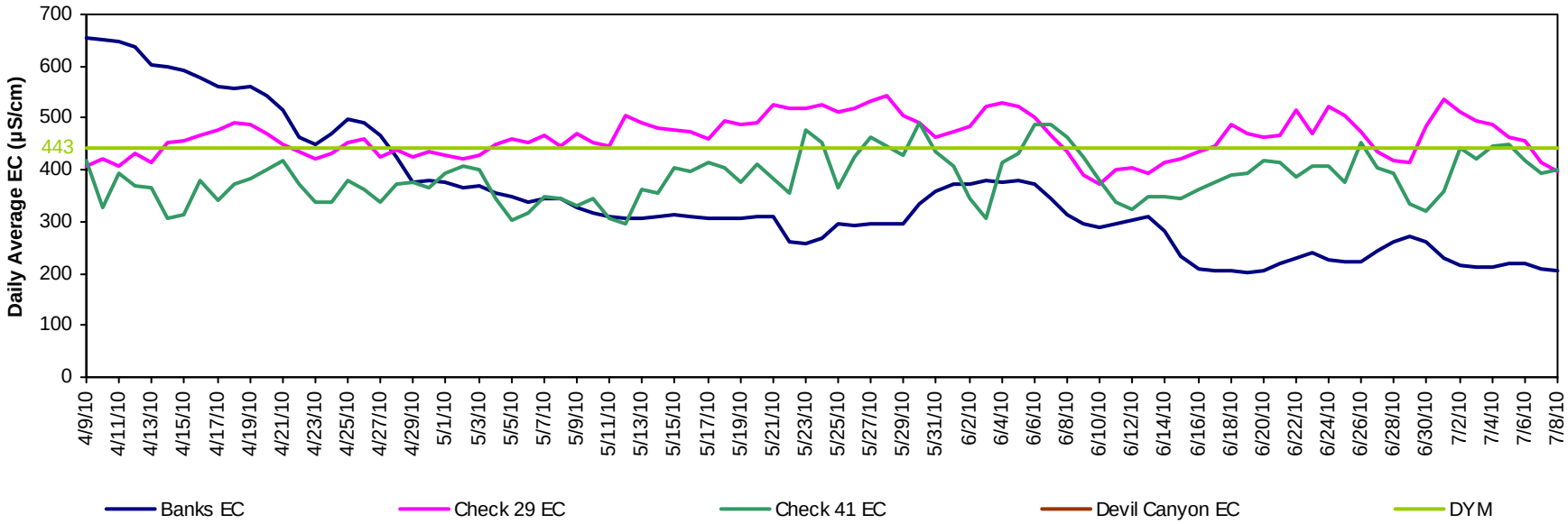
- Arvin-Edison Water Storage District = 1 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 141 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 154 AF
- Semitropic (2&3) Water Storage District = 0 AF
- Wheeler Ridge Maricopa Water Storage District = 0 AF

*As of July 6, 2010, no data were available for Devil Canyon due to malfunctioning instruments.*

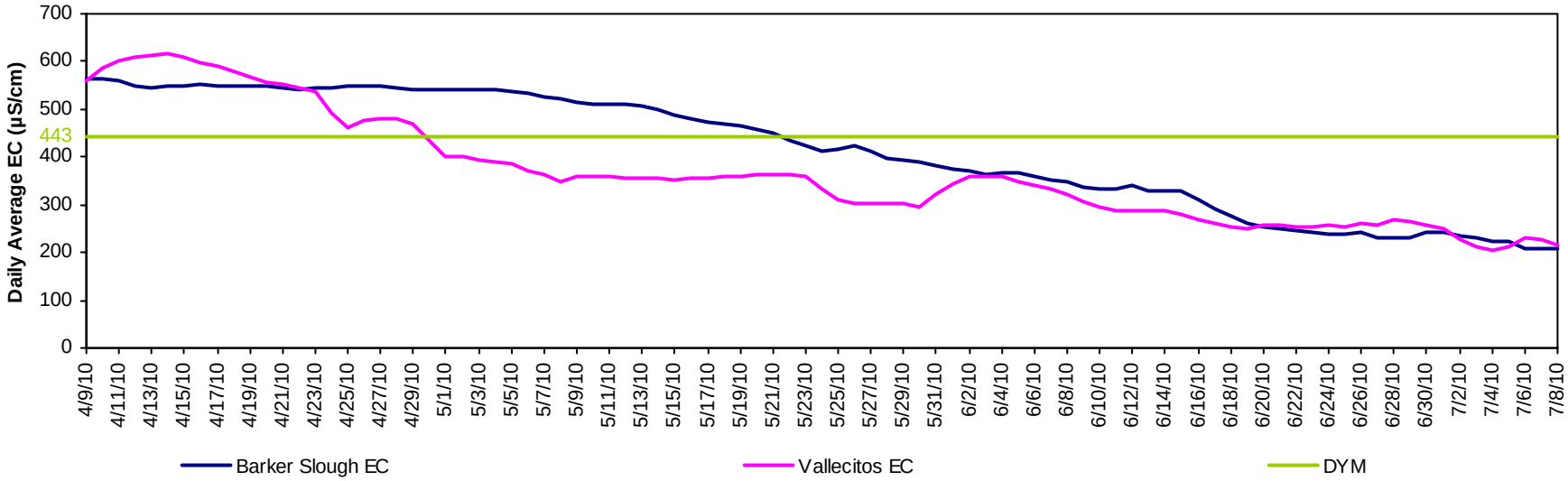
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213 or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

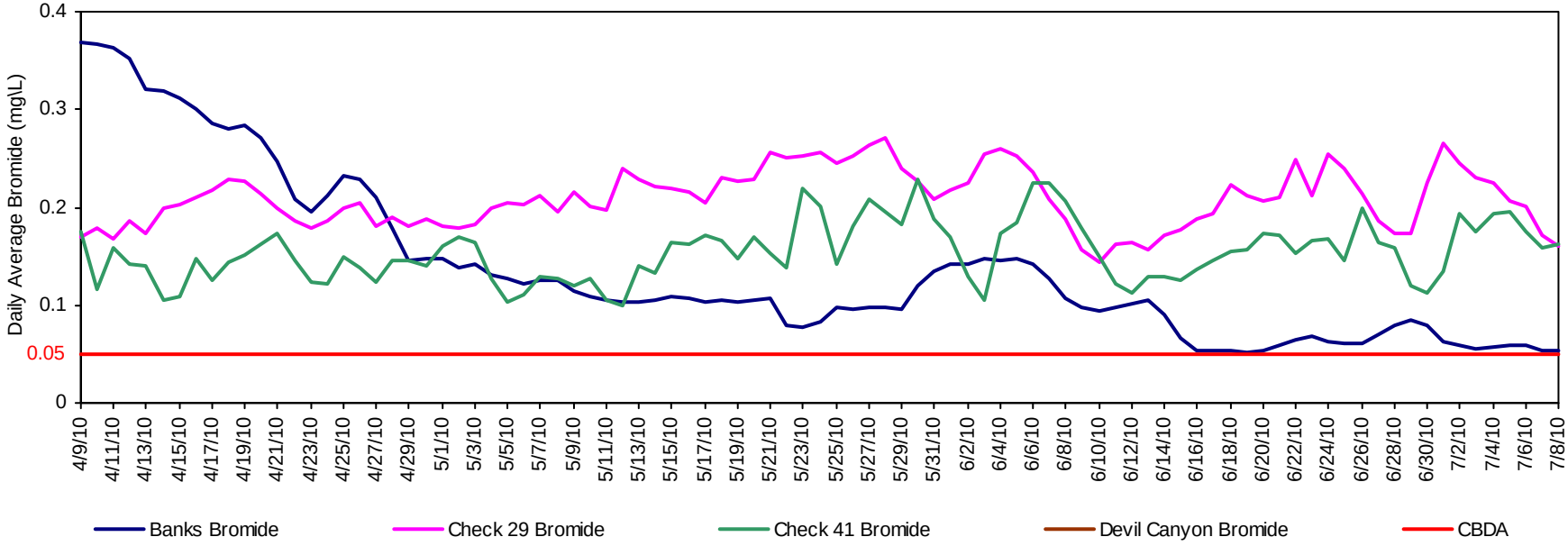
## California Aqueduct - Electrical Conductivity




## North and South Bay Aqueduct - Electrical Conductivity



## California Aqueduct - Calculated Bromide

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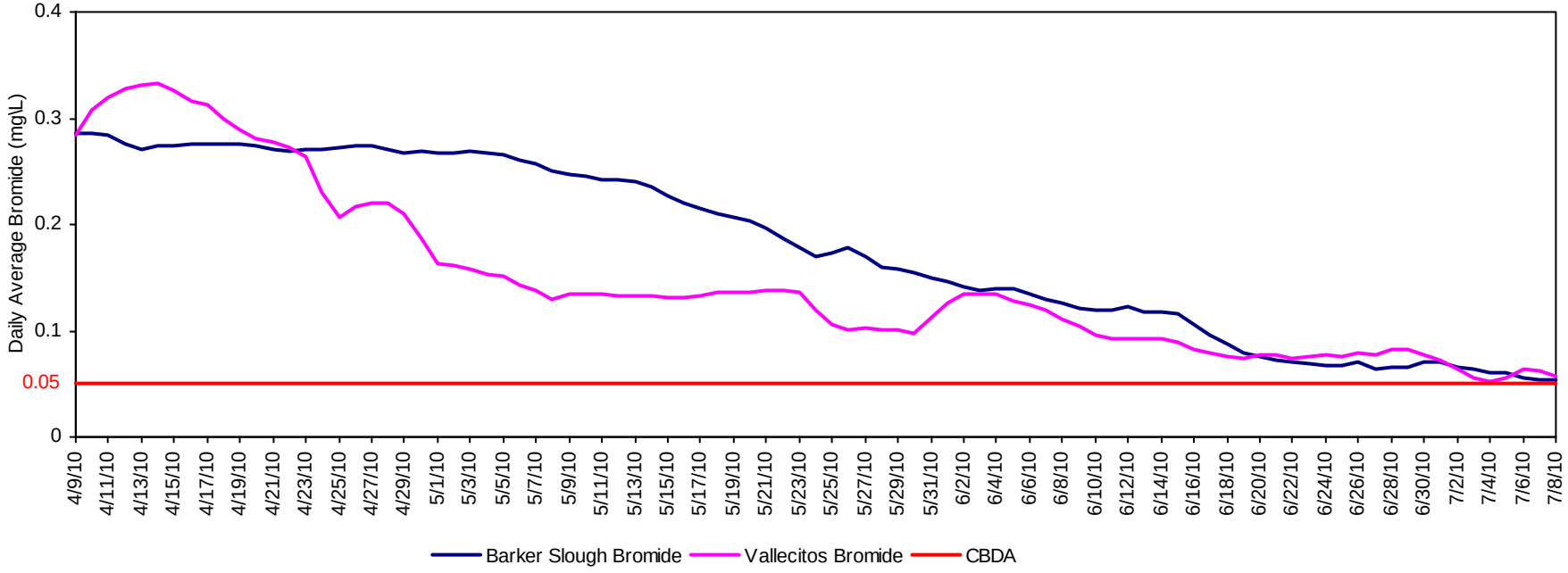
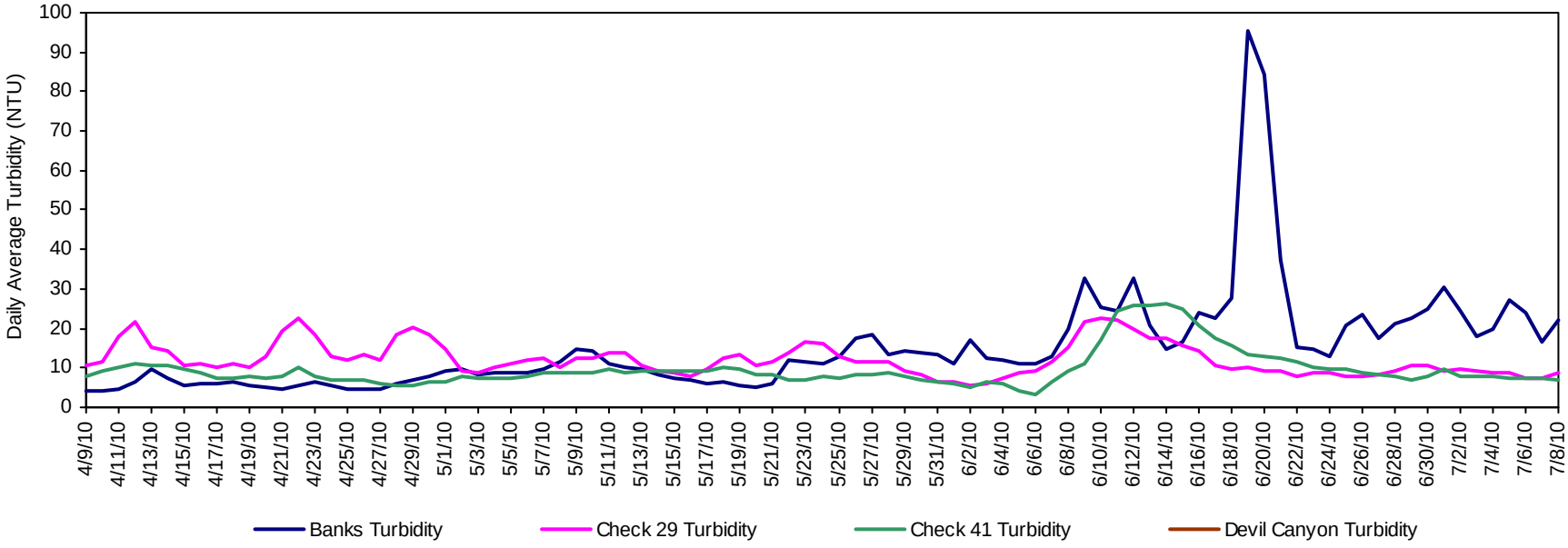


## California Aqueduct - Turbidity

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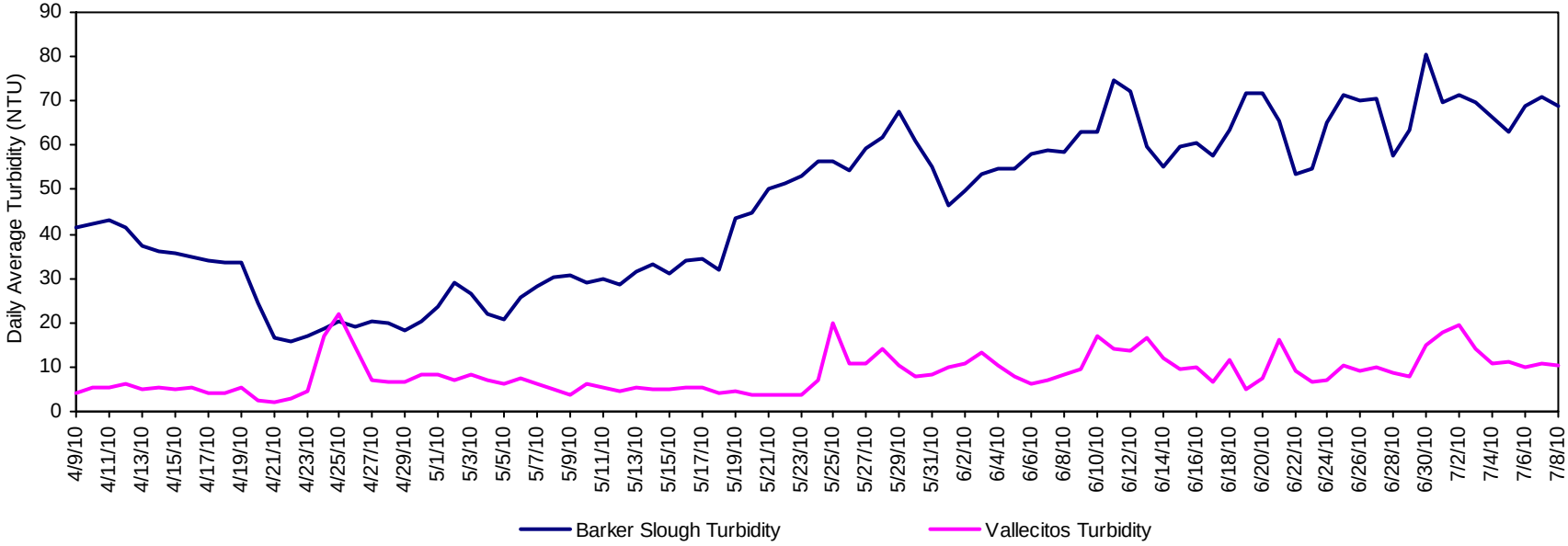

# California Aqueduct
# Calculated Dissolved Organic Carbon